

ON SOME NEW SPECIES OF *MELANIA* FROM PALAWAN AND THE NEIGHBOURHOOD.

By Dr. A. BROU, of Geneva.

Read June 8th, 1894.

1. *MELANIA* (*ACROSTOMA*) *SADONGIENSIS*, n.sp. Fig. 4.

Testa fusiformi-conica, atro-fusca, solida; adulta valde decollata; anfractus primi vix convexiusculi, lævigati; ultimi $\frac{3}{4}$ (in adulta persistentes) convexiores, infra suturam filiformem constricti; ultimo globoso, longitudinaliter elevato-striato, striis basi robustis, distantibus. Apertura ovata superne acuta, basi attenuata et producta, intus intense violaceo-fusca, ad marginem cærulescente, margine dextro obtuso, superne late sinuato; columella torta, parum arcuata. Alt. (spec. adult. decollatum, anfr. 3) 22, lat. 16 mm.; apert. alt. 12, lat. 7 mm.

Hab.—River Sadong, W. Sarawak. (Comm. H. Fulton.)

Allied to *M. siphonata*, Rv., but smaller, last whorl less inflated and marked with filiform raised striæ instead of the fine striæ which are to be seen on *M. siphonata*. Young specimens have a conical spire and the last whorl angular at the base; the adult individuals are slightly cylindrical with the last whorl inflated and scarcely angular at the periphery.

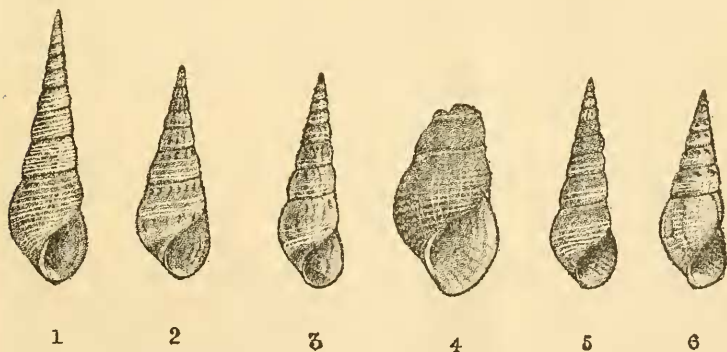
NEW SPECIES OF *MELANIA*.

Fig. 1. *Melania exserta*.
 „ 2. „ *pyramidella*.
 „ 3. „ *Fultoni*.

Fig. 4. *Melania Sadongiënsis*.
 „ 5. „ *subplicatula*.
 „ 6. „ *Palawanica*.

2. *MELANIA* (*STRIATELLA*) *FULTONI*, n.sp. Fig. 3.

Testa turrita, cornea, vivide flammulata, nitida, spira elata, apice subintegra; anfract. 10–12, convexiusculi, supremi longitudinaliter elevato-striati, ultimi inciso-striati, striis vix impressis, transverse

flammulati, flammulis vix interruptis, fulguratis rubris; fasciâ basali obscurâ latiusculâ. Apertura superne acuta, basi late rotundata, effusula; columella arcuata, parum torta; margine dextro simplici, obtuso, superne vix sinuato. Alt. 28, lat. 9 mm.; apert. alt. 8, lat. 5 mm.

Hab.—Mengalum Is., north of Labuan. (Comm. H. Fulton.)

Resembling in its general form *M. tuberculata*, Müll., but may be distinguished by its smooth and shiny epidermis and incised striæ. Its brilliant marking gives it a little the appearance of *M. Hanleyi*, Brot, or *M. Dautzenbergi*, Morlet.

3. MELANIA (STRIATELLA) EXSERTA, n.sp. Fig. 1.

Testa subulato-turrita, solidula, luto atro obscurata; spira integra; anfr. circa 19 convexiusculi, sutura marginata divisi, longitudinaliter crebre inciso-striati. Apertura ovata superne acuta; margine dextro simplici, haud sinuato; columellari incrassato, parum arcuato, basali vix effuso, rotundato. Alt. 40, lat. 10 mm.; apert. alt. 10, lat. 6 mm.

Hab.—Palawan. (Comm. H. Fulton.)

It may be distinguished from all the other forms of the group *Striatella* by its extremely slender, concavo-subulate spire. The young specimens show that under the black covering, the shell is horn-coloured, marked with narrow brown flammules.

4. MELANIA (STRIATELLA) PYRAMIDELLA, n.sp. Fig. 2.

Testa pyramidalis-turrita, solidula, fusco-cornea, punctis rubris infra suturam et ad peripheriam notata. Spira integra, anfr. 10, supremi convexi, transverse costulati, sequentes convexiusculi, sub suturam coarctati, longitudinaliter inæqualiter inciso-striati, ultimus ad peripheriam subangulatus. Apertura ovata, superne acuta, basi paulo attenuata; columella subrecte descendens; margine dextro tenui, acuto, vix sinuato. Operculum subspiratum, nucleo basali. Alt. 25, lat. 9 mm.; apert. alt. 9, lat. 5 mm.

Hab.—Palawan. (Comm. H. Fulton.)

Characterized by its pyramidal form and its last whorl being slightly subangular but rounded at the periphery. A lighter zone runs below the sutures.

5. MELANIA (STRIATELLA) PALAWANICA, n.sp. Fig. 6.

Testa turrita, solidula, cornea, sparsim rubro punctata. Spira integra; anfract. 11 vix convexiusculi, supremi nonnunquam infra suturas plicati, omnes longitudinaliter inciso-striati, striis irregularibus usque ad basin conspicuis. Sutura submarginata. Apertura ovato-arcuata, superne acuta, basi paulo attenuata, anguste rotundata; columella parum arcuata; margine dextro simplici acuto, haud sinuato. Alt. 25, lat. 8 mm.; apert. alt. 8, lat. 4 mm.

Hab.—Palawan, Balabac. (Comm. H. Fulton.)

This species has no sharply defined characters; it resembles some of the varieties of my *M. Labuanensis* that have flattened whorls. I rather hesitate to describe it as new, but consider it is less injurious to science to propose a needless species than to make a wrong identification.

6.—*MELANIA* (*STRIATELLA*) *SUBPLICATULA*, n.sp. Fig. 5.

Testa turrita, solidula, virescenti-cornea, superne pallidior. Spira integra; anfract. 9 plano-declives, medio inciso-striati, supremi transverse costulati, ultimi obscure plicatuli, sutura canaliculata divisi; ultimus superne planulatus, basi convexiusculus, ad peripheriam striis 4-5 incisis notatus, basi vix striatulus. Apertura ovato-acuta, superne acuta, basi rotundata; columella incrassata, margine dextro tenui, acuto, haud sinuato. Alt. 20, lat. 8 mm.; apert. alt. 7, lat. 4 mm.

Hab.—Palawan. (Comm. H. Fulton.)

Shell costulate at the apex, marked with some incised striae at the middle of the last whorl, which are seen above the suture on the upper whorls, otherwise smooth. Whorls flat, slightly sloping. The costulations on the upper whorls gradually become less pronounced and change into plications which are scarcely distinct on the lower whorls. Epidermis greenish, brighter on the upper whorls.
